

Abstract

Described is a system and method of regenerating stack unwind data in the presence of exceptions. The system is directed to generating metadata for use during stack unwinding. The system includes procedures, a first plurality of metadata, and an unwind rewriter. Each metadata is associated with a corresponding procedure in the procedures. The unwind rewriter generates new metadata from the first plurality of metadata in response to a modification of the sequence of binary instructions within a procedure, such that the new metadata accurately represents the modified sequence of binary instructions. The method regenerates metadata in response to a binary modification to a procedure by receiving a first group of metadata associated with the unmodified procedure, parsing the first group of metadata, and generating a second group of metadata that accurately represents the binary modification to the procedure.

